



KIRAN-IPR Examination

PREVIEW QUESTION BANK

Module Name : WOSC08-E

Exam Date : 31-Oct-2015 Batch : 11:00-13:00

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Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Multiple Choice Question				
1	1	The heat content of a system is called  A1 : enthalpy  A2 : entropy  A3 : heat of reaction  A4 : internal energy	1.0	0.25
Multiple Choice Question				
2	2	Fire point of flammable liquid is generally  A1 : equal to open-cup flash point	1.0	0.25

		<p>A2 slightly below open-cup flash point</p> <p>A3 slightly above open-cup flash point</p> <p>A4 none of these</p>		
Multiple Choice Question				
3	3	<p>One ton of refrigeration is defined as the heat removal rate corresponding to freezing of one ton of water at 0°C in</p> <p>A1 1 hour</p> <p>A2 1 day</p> <p>A3 1 minute</p> <p>A4 1 second</p>	1.0	0.2 5
Multiple Choice Question				
4	4	<p>Ostwald process is used for the preparation of</p> <p>A1 sulfuric acid</p> <p>A2 phosphoric acid</p>	1.0	0.2 5

A3 hydrochloric acid  
:

A4 nitric acid  
:

Multiple Choice Question

5 5

According to the Kohlrausch law of independent migration of ion  $\Lambda_m^0(\text{NaCl})$ , is equal to

1.0

0.2  
5

A1  $\lambda_{\text{Na}^+}^0 + \lambda_{\text{Cl}^-}^0$   
:

A2  $\lambda_{\text{Na}^+}^0 - \lambda_{\text{Cl}^-}^0$   
:

A3  $\lambda_{\text{Na}^+}^0 \times \lambda_{\text{Cl}^-}^0$   
:

A4  $\lambda_{\text{Na}^+}^0 / \lambda_{\text{Cl}^-}^0$   
:

Multiple Choice Question

6 6

The metal ions present in hemoglobin and vitamin B12 are

1.0

0.2  
5

A1 iron and cobalt, respectively  
:

A2 cobalt and zinc, respectively  
:

		<p>A3 : zinc and iron, respectively</p> <p>A4 : cobalt and iron, respectively</p>		
Multiple Choice Question				
7	7	<p>The Lewis acid among the following is</p> <p>A1 : triethylamine</p> <p>A2 : trimethylborane</p> <p>A3 : trimethylphosphine</p> <p>A4 : pyridine</p>	1.0	0.2 5
Multiple Choice Question				
8	8	<p>The Grignard reagent is</p> <p>A1 : CH<sub>3</sub>Li</p> <p>A2 : CH<sub>3</sub>MgBr</p> <p>A3 : (CH<sub>3</sub>)<sub>2</sub>CuLi</p> <p>A4 : (i-Pr)<sub>2</sub>NMgBr</p>	1.0	0.2 5

Multiple Choice Question

9	9	<p>The number of H<sub>2</sub>O molecules in 18.02g of water is</p> <p>A1 6.022 x 10<sup>23</sup> :</p> <p>A2 108.55 x 10<sup>23</sup> :</p> <p>A3 96.35 x 10<sup>23</sup> :</p> <p>A4 12.04 x 10<sup>23</sup> :</p>	1.0	0.2 5
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Multiple Choice Question

10	10	<p>In a unit cell, if the constituent particles occupy only the corner positions, then it is called as</p> <p>A1 primitive :</p> <p>A2 face-centred :</p> <p>A3 body-centred :</p> <p>A4 end-centred :</p>	1.0	0.2 5
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Multiple Choice Question

11	11	<p>Which one of the following property is not applicable to suspension?</p>	1.0	0.2 5
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		<p>A1 Brownian movement :</p> <p>A2 Newtonian Motion :</p> <p>A3 Stokes' law :</p> <p>A4 Rapid rate of sedimentation :</p>		
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Multiple Choice Question

12	12	<p>Which type of lipoprotein is responsible for atherosclerosis?</p> <p>A1 HDL :</p> <p>A2 LDL or ULDL :</p> <p>A3 Chylomicron :</p> <p>A4 Any of the above :</p>	1.0	0.2 5
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Multiple Choice Question

13	13	<p>Erythromycin belongs to the class:</p> <p>A1 <input type="text" value="β - Lactam"/> :</p> <p>A2 Peptide</p>	1.0	0.2 5
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		<p>: A3 Aminoglycoside :</p> <p>A4 Macrolide :</p>		
Multiple Choice Question				
14	14	<p>Antibodies are produced by:</p> <p>A1 T- cells :</p> <p>A2 NK cells :</p> <p>A3 <math>\beta</math> - cells :</p> <p>A4 Eosinophils :</p>	1.0	0.2 5
Multiple Choice Question				
15	15	<p>What is the full form of ANDA?</p> <p>A1 Active New Drug Application. :</p> <p>A2 Active New Drug Addendum. :</p> <p>A3 Abbreviated New Drug Application. :</p>	1.0	0.2 5

		A4 : Alternative New Drug Application.		
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Multiple Choice Question

16	16	<p>Sulphonamides act mainly by inhibiting</p> <p>A1 : Amide synthesis in the bacteria</p> <p>A2 : Carboxylic acid synthesis in the bacteria</p> <p>A3 : Folic acid synthesis in the bacteria</p> <p>A4 : Cell wall synthesis in the bacteria</p>	1.0	0.2 5
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Multiple Choice Question

17	17	<p>Rauwolfia serpentina belongs to</p> <p>A1 : Family Rubiaceae</p> <p>A2 : Family Euphorbiaceae</p> <p>A3 : Family Apocynaceae</p> <p>A4 : Family Labiateae</p>	1.0	0.2 5
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Multiple Choice Question

18	18	One of these is not part of the phase I reaction of drug	1.0	0.2
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		metabolism		5
		A1 : Oxidation reaction		
		A2 : Conjugation reaction		
		A3 : Reductive reaction		
		A4 : Hydrolytic reaction		
Multiple Choice Question				
19	19	An antagonist is said to possess	1.0	0.2 5
		A1 : Both Affinity and Intrinsic activity		
		A2 : Only Affinity and Zero Intrinsic activity		
		A3 : Only Intrinsic activity and no affinity		
		A4 : No Affinity and Intrinsic activity		
Multiple Choice Question				
20	20	One of the examples of Kinase linked receptors is	1.0	0.2 5
		A1 : Adrenergic receptor		

		<p>A2 Cholinergic receptor :</p> <p>A3 Insulin receptor :</p> <p>A4 Calcium ATPase :</p>		
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Multiple Choice Question

21	21	<p>Penicillin acts as an antibiotic on susceptible bacteria by interfering with</p> <p>A1 Cell wall formation :</p> <p>A2 The electron transport chain :</p> <p>A3 DNA synthesis :</p> <p>A4 Protein synthesis :</p>	1.0	0.2 5
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Multiple Choice Question

22	22	<p>Genetic engineering involves which of the following</p> <p>A1 Conjugation :</p> <p>A2 Cloning :</p> <p>A3 Mutation</p>	1.0	0.2 5
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		: A4 Deamination :		
Multiple Choice Question				
23	23	Phytochrome is a  A1 Blue protein pigment :  A2 Red protein pigment :  A3 Yellow protein pigment :  A4 None :	1.0	0.2 5
Multiple Choice Question				
24	24	In eukaryotes genetic material is present in the  A1 nucleus only :  A2 nucleus and some of the organelles present in the : cytoplasm  A3 organelles present in the cytoplasm only :  A4 none of the above :	1.0	0.2 5

Multiple Choice Question

25	25	<p>Transcription is a process in which</p> <p>A1 : DNA synthesis takes place</p> <p>A2 : mRNA synthesis takes place</p> <p>A3 : protein synthesis takes place</p> <p>A4 : DNA and mRNA synthesis takes place</p>	1.0	0.2 5
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Multiple Choice Question

26	26	<p>A nucleotide consists of</p> <p>A1 : Nitrogenous base</p> <p>A2 : Nitrogenous base + pentose sugar</p> <p>A3 : Nitrogenous base + phosphate</p> <p>A4 : Nitrogenous base + pentose sugar + phosphate</p>	1.0	0.2 5
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Multiple Choice Question

27	27	<p>Peptide bonds are formed by involving</p> <p>A1 : Two amino groups</p>	1.0	0.2 5
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		<p>A2 Two carboxyl groups :</p> <p>A3 Two keto groups :</p> <p>A4 One carboxyl and one amino group :</p>		
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Multiple Choice Question

28	28	<p>DNA isolated from <i>Aspergillus</i> has an adenine content of 25%. Based upon this information, what is the %G+C within the <i>Asper</i> DNA?</p> <p>A1 0% :</p> <p>A2 25% :</p> <p>A3 50% :</p> <p>A4 75% :</p>	1.0	0.25
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Multiple Choice Question

29	29	<p>Benedict's solution is not reduced by</p> <p>A1 Glucose :</p> <p>A2 Fructose :</p>	1.0	0.25
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		<p>A3 : Sucrose</p> <p>A4 : Lactose</p>		
Multiple Choice Question				
30	30	<p>DNA of organism A has 60% GC and 40% AT and organism B has 40% GC and 60% AT, the <math>T_m</math> value of the DNA of</p> <p>A1 : organism A will be higher than organism B</p> <p>A2 : organism B will be higher than organism A</p> <p>A3 : organism A &amp; B will be same</p> <p>A4 : no conclusion can be drawn</p>	1.0	0.2 5
Multiple Choice Question				
31	31	<p>Which of the following protein is not a part of the cytoskeletal structure of a cell</p> <p>A1 : tubulin</p> <p>A2 : actin</p> <p>A3 : albumin</p>	1.0	0.2 5

		A4 kinesin :		
Multiple Choice Question				
32	32	p53 is considered an important marker for which of the following disease  A1 diabetes : A2 cancer : A3 AIDS : A4 malaria :	1.0	0.2 5
Multiple Choice Question				
33	33	ATP synthase is an example of natural molecular motor that can convert  A1 mechanical energy into chemical energy : A2 electrical energy into mechanical energy : A3 chemical energy into mechanical energy : A4 chemical energy into electrical energy :	1.0	0.2 5

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Multiple Choice Question

34	34	<p>Propidium iodide staining for the cells is used for</p> <p>A1 : haemoglobin assay</p> <p>A2 : cell viability assay</p> <p>A3 : cellular protein estimation assay</p> <p>A4 : None of the above</p>	1.0	0.2 5
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Multiple Choice Question

35	35	<p>Intron splicing occurs after</p> <p>A1 : transcription</p> <p>A2 : translation</p> <p>A3 : transpiration</p> <p>A4 : None of the above</p>	1.0	0.2 5
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Multiple Choice Question

36	36	<p>Green Fluorescent protein is isolated from</p> <p>A1 fish</p>	1.0	0.2 5
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		: A2 zebra : A3 monkey : A4 horse :		
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Multiple Choice Question

37	37	Leaves with Kranz anatomy are present in  A1 C3 plants : A2 C4 plants : A3 both C3 and C4 plants : A4 CAM plants :	1.0	0.2 5
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Multiple Choice Question

38	38	Which one of the following is considered as Biodiversity hotspot in India  A1 Aravali ranges : A2 Western Ghats :	1.0	0.2 5
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		A3 : Thar Desert		
		A4 : Runn of Kutch		

Multiple Choice Question

39	39	At Isoelectric point a molecule carries	1.0	0.2 5
		A1 : positive charge		
		A2 : negative charge		
		A3 : no net electric charge		
		A4 : None of the above		

Multiple Choice Question

40	40	Hybridoma Technology is employed for production of	1.0	0.2 5
		A1 : polyclonal antibodies		
		A2 : monoclonal antibodies		
		A3 : polyclonal antigens		
		A4 : monoclonal antigens		

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Multiple Choice Question				
41	41	<p>Under which of the following conditions can a gas to be considered an ideal gas? <math>T_r</math> and <math>p_r</math> are the reduced temperature and pressure, respectively.</p> <p>A1 <math>T_r &gt; 1</math> and <math>p_r &gt; 1</math> :</p> <p>A2 <math>T_r &lt; 1</math> and <math>p_r &lt; 1</math> :</p> <p>A3 <math>T_r &gt; 1</math> and <math>p_r &lt; 1</math> :</p> <p>A4 <math>T_r &lt; 1</math> and <math>p_r &gt; 1</math> :</p>	1.0	0.25

Multiple Choice Question				
42	42	<p>For a substance in a saturated state, which of the following are correct?</p> <p>A1 Enthalpy is constant :</p> <p>A2 Pressure and temperature are correlated :</p> <p>A3 Pressure and temperature are independent properties :</p> <p>A4 <math>pV = mRT</math> is applicable :</p>	1.0	0.25

Multiple Choice Question

43	43	<p>A Carnot cycle comprises of four processes which are</p> <p>A1 : Two isobaric processes and two isentropic processes</p> <p>A2 : One isobaric process, one isothermal process and two isentropic processes</p> <p>A3 : Two isothermal processes and two isentropic processes</p> <p>A4 : Two isothermal processes and two isobaric processes</p>	1.0	0.2 5
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Multiple Choice Question

44	44	<p>A vessel containing water at 10 °C is kept on a table where a temperature (<math>T_{\infty}</math>) is 40 °C. As the water warms up, the temperature exterior surface of the vessel increases with time. At any instant the surface temperature is <math>T_s</math> which is uniform all over. The surface area for heat transfer is 1000 mm<sup>2</sup>. Assume that there is no moisture condensation on the vessel exterior and the average convection transfer rate is 5 W/(m<sup>2</sup>K). At an instant when the surface temperature is 20 °C, the convection heat transfer rate will be:</p> <p>A1 : 0.1 W</p> <p>A2 : 100,000 W</p> <p>A3 : 1 W</p> <p>A4 : 0.05 W</p>	1.0	0.2 5
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Multiple Choice Question

45	45	<p>Consider air flow in a duct. The differential pressure measured static tube placed in the duct and facing into the flow d measured to be 4 mm of Water. Assuming the density of air an 1 and 1000 kg/m<sup>3</sup>, respectively, which of the following is closest speed? ('g' may be taken as 10 m/s<sup>2</sup>).</p> <p>A1 0.2 m/s :</p> <p>A2 6.3 m/s :</p> <p>A3 4.5 m/s :</p> <p>A4 8.9 m/s :</p>	1.0	0.2 5
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Multiple Choice Question

46	46	<p>Copper is made into wires by a process called</p> <p>A1 pulling :</p> <p>A2 turning :</p> <p>A3 drawing :</p> <p>A4 thinning :</p>	1.0	0.2 5
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Multiple Choice Question

47	47	<p>The carbon content of mild steel that is used for making grills on windows is about</p> <p>A1 2% :</p> <p>A2 0.2% :</p> <p>A3 20% :</p> <p>A4 0.002% :</p>	1.0	0.2 5
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Multiple Choice Question

48	48	<p>After a perfectly elastic collision between two spheres</p> <p>A1 The total momentum is conserved but total energy is not. :</p> <p>A2 The total energy is conserved but total momentum is not. :</p> <p>A3 Both total momentum and total energy are conserved. :</p> <p>A4 Neither total momentum nor total energy are conserved :</p>	1.0	0.2 5
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Multiple Choice Question

49	49	<p>An electric motor operates at 1500 RPM and powers a gear box. The input gear has 20 teeth and the output gear speed is 600 RPM. The number of teeth on the output gear is</p>	1.0	0.2 5
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		<p>A1 20 :</p> <p>A2 8 :</p> <p>A3 12 :</p> <p>A4 50 :</p>		
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Multiple Choice Question

50	50	<p>Which one of the following wears is predominant in cemented carbide tools?</p> <p>A1 Flank wear :</p> <p>A2 Attrition wear :</p> <p>A3 Crater wear :</p> <p>A4 None of these :</p>	1.0	0.2 5
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Multiple Choice Question

51	51	<p>The value of chip thickness ratio is</p> <p>A1 Less than one :</p> <p>A2 Greater than one</p>	1.0	0.2 5
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		<p>:</p> <p>A3 Equal to one</p> <p>:</p> <p>A4 None of these</p> <p>:</p>		
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Multiple Choice Question

52	52	<p>The ideal shape of a riser is</p> <p>A1 Cubical</p> <p>:</p> <p>A2 Spherical</p> <p>:</p> <p>A3 Cylindrical</p> <p>:</p> <p>A4 Conical</p> <p>:</p>	1.0	0.2 5
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Multiple Choice Question

53	53	<p>The specific modulus of elasticity is defined as</p> <p>A1 Modulus of elasticity divided by the weight of the material</p> <p>:</p> <p>A2 Modulus of elasticity divided by the specific gravity of the material</p> <p>:</p> <p>A3 Modulus of elasticity divided by the density of the material</p> <p>:</p>	1.0	0.2 5
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		A4 None of the above :		
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Multiple Choice Question

54	54	Which of the following is a spring controlled governor  A1 Watt :  A2 Porter :  A3 Proel :  A4 Hartung :	1.0	0.2 5
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Multiple Choice Question

55	55	Cycloidal tooth profile is not preferred over involute profile because  A1 Pressure angle changes during engagement/disengagement :  A2 Pressure angle remains constant :  A3 Problem of interference :  A4 None of the above :	1.0	0.2 5
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Multiple Choice Question

56	56	<p>Herringbone gear is mainly used with the following advantage</p> <p>A1 : Reduction in friction</p> <p>A2 : Reduction in radial load</p> <p>A3 : Nullify axial load</p> <p>A4 : Enhancement of impact strength</p>	1.0	0.2 5
Multiple Choice Question				
57	57	<p>Numerical value of module of the gear having 25 teeth and pitch circle diameter of 100mm is</p> <p>A1 : 4</p> <p>A2 : 0.25</p> <p>A3 : 2500</p> <p>A4 : 0.0025</p>	1.0	0.2 5
Multiple Choice Question				
58	58	<p>The standard deviation of a discrete variable following a Poisson distribution with mean as 5 is</p> <p>A1 : 5</p>	1.0	0.2 5

		: A2 15 : A3 5 <sup>2</sup> : A4 5 <sup>1/2</sup> :		
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Multiple Choice Question

59	59	'A' class inventory items, in comparison with 'C' class items, usually have  A1 Higher service levels : A2 Lower service levels : A3 Equal service levels : A4 Service levels have nothing to do with A or C class	1.0	0.25
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Multiple Choice Question

60	60	A surface with a large Ra value, or a positive Rsk, will usually  A1 Have high friction and wear quickly : A2 Have high friction and doesn't wear quickly	1.0	0.25
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		<p>A3 : Have low friction and wear quickly</p> <p>A4 : Have high friction and won't wear quickly</p>		
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Multiple Choice Question

61	61	<p>In a series RL ac circuit consisting of R, X and Z ohms resistance, reactance and an impedance respectively, the power factor of the circuit is</p> <p>A1 <math>X/R</math> :</p> <p>A2 <math>R/Z</math> :</p> <p>A3 <math>X/Z</math> :</p> <p>A4 <math>Z/X</math> :</p>	1.0	0.2 5
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Multiple Choice Question

62	62	<p>For a balanced three-phase load, a wattmeter is used by connecting its current coil in phase A and voltage coil across phase B and C. Its reading will give:</p> <p>A1 <math>V_{ph} I_{ph} \cos \theta</math> :</p> <p>A2 <math>V_{ph} I_{ph} \sin \theta</math> :</p>	1.0	0.2 5
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		<p>A3 <math>\sqrt{3} V_{ph} I_{ph} \cos \theta</math> :</p> <p>A4 <math>\sqrt{3} V_{ph} I_{ph} \sin \theta</math> :</p>		
Multiple Choice Question				
63	63	<p>A 3-phase synchronous motor is running at half load, unity pf, its load is increased to full load with no change in field excitation, its new power factor will be</p> <p>A1 unity power factor :</p> <p>A2 lagging power factor :</p> <p>A3 leading power factor :</p> <p>A4 depends on motor parameters :</p>	1.0	0.2 5
Multiple Choice Question				
64	64	<p>The Laplace transform of <math>(\sin 3t)</math> is</p> <p>A1 <math>s/(s^2+9)</math> :</p> <p>A2 <math>3/(s^2-9)</math> :</p> <p>A3 <math>3/(s^2+9)</math> :</p>	1.0	0.2 5

		A4 $s/(s^2-9)$ :		
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Multiple Choice Question

65	65	<p>Lissajous patterns are used to measure</p> <p>A1 : voltage and frequency</p> <p>A2 : phase shift and frequency</p> <p>A3 : amplitude and frequency</p> <p>A4 : none of the above</p>	1.0	0.2 5
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Multiple Choice Question

66	66	<p>According to the maximum power theorem, load impedance must be</p> <p>A1 : resistive equal to source impedance</p> <p>A2 : inductive equal to source impedance</p> <p>A3 : complex conjugate of source impedance</p> <p>A4 : same as source impedance</p>	1.0	0.2 5
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Multiple Choice Question

67	67	<p>In a series RLC circuit, a dc source voltage <math>V</math> is suddenly applied. Assuming the initial storages in elements to be zero, the initial and final currents <math>i_o</math>, and <math>i_f</math> respectively are</p> <p>A1 both zero :</p> <p>A2 both <math>V/R</math> :</p> <p>A3 <math>i_o = V/R, i_f = 0</math> :</p> <p>A4 <math>i_o = 0</math> and <math>i_f = V/R</math> :</p>	1.0	0.2 5
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Multiple Choice Question

68	68	<p>In a series RLC circuit with variable frequency, the power factors of the circuit below resonance and above resonance respectively are</p> <p>A1 Both lagging :</p> <p>A2 both leading :</p> <p>A3 leading and lagging :</p> <p>A4 lagging and leading :</p>	1.0	0.2 5
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Multiple Choice Question

69	69	<p>If for a given armature current, the field current of a dc shunt motor is reduced, the changes will be</p>	1.0	0.2 5
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		<p>A1 : both speed and developed torque will reduce</p> <p>A2 : both speed and developed torque will increase</p> <p>A3 : speed will reduce and developed torque will increase</p> <p>A4 : speed will increase and developed torque will reduce</p>		
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Multiple Choice Question

70	70	<p>Moving coil(MC) and moving iron(MI) meters can measure following signals</p> <p>A1 : MC and MI both for ac only</p> <p>A2 : MI for both ac and dc and MC for dc only</p> <p>A3 : MC for both ac and dc and MI for dc only</p> <p>A4 : MC and MI for both ac and dc</p>	1.0	0.2 5
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Multiple Choice Question

71	71	<p>The first short upward movement of an ECG trace is called</p> <p>A1 : T wave</p>	1.0	0.2 5
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		<p>A2 Q wave :</p> <p>A3 P wave :</p> <p>A4 S wave :</p>		
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Multiple Choice Question

72	72	<p>Erithrocyte Sedimentation Rate (ESR) measures the rate at which</p> <p>A1 red blood cells sediment in 1 hour :</p> <p>A2 white blood cells sediment in 1 hour :</p> <p>A3 white blood cells sediment in 24 hour :</p> <p>A4 red blood cells sediment in 24 hour :</p>	1.0	0.2 5
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Multiple Choice Question

73	73	<p>To convert an ammeter in to a voltmeter, we need to connect</p> <p>A1 high resistance in shunt to the ammeter :</p> <p>A2 high resistance in series to the ammeter :</p> <p>A3 low resistance in shunt to the ammeter</p>	1.0	0.2 5
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		<p>⋮</p> <p>A4 low resistance in series to the ammeter</p> <p>⋮</p>		
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Multiple Choice Question

74	74	<p>Piezoelectric sensors are used for</p> <p>A1 measurement of velocity</p> <p>⋮</p> <p>A2 measurement of pressure</p> <p>⋮</p> <p>A3 measurement of temperature</p> <p>⋮</p> <p>A4 measurement of volume</p> <p>⋮</p>	1.0	0.2 5
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Multiple Choice Question

75	75	<p>A capacitance of 0.5F has a voltage across it changing at the rate of 5V/sec. The current through the capacitor will be</p> <p>A1 5 Amps</p> <p>⋮</p> <p>A2 10 Amps</p> <p>⋮</p> <p>A3 2.5 Amps</p> <p>⋮</p> <p>A4 0.5Amps</p> <p>⋮</p>	1.0	0.2 5
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		Multiple Choice Question			
76	76	<p>The fastest available A to D converters are based on</p> <p>A1 Flash Converter :</p> <p>A2 Dual Slope Converter :</p> <p>A3 SAR converters :</p> <p>A4 Sigma Delta converter :</p>	1.0	0.2	5
Multiple Choice Question					
77	77	<p>The decimal number 110 is represented in hexadecimal form as</p> <p>A1 B0 :</p> <p>A2 6E :</p> <p>A3 1A :</p> <p>A4 78 :</p>	1.0	0.2	5
Multiple Choice Question					
78	78	<p>The purpose of source encoding is to</p> <p>A1 Encrypt the data for security</p>	1.0	0.2	5

		<p>:</p> <p>A2 Compress the signal for efficient bandwidth utilization</p> <p>:</p> <p>A3 Add redundancy to increase robustness to channel errors</p> <p>:</p> <p>A4 Modulate by a carrier to transmit in the required channel</p> <p>:</p>		
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Multiple Choice Question

79	79	<p>MIMO communications exploits</p> <p>A1 Temporal diversity</p> <p>:</p> <p>A2 Polarization diversity</p> <p>:</p> <p>A3 Frequency diversity</p> <p>:</p> <p>A4 Spatial diversity</p> <p>:</p>	1.0	0.2 5
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Multiple Choice Question

80	80	<p>The process of transmitting two or more signals simultaneously over the same channel is called</p> <p>A1 Modulation</p> <p>:</p> <p>A2 Mixing</p> <p>:</p>	1.0	0.2 5
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		<p>A3 Multiplexing :</p> <p>A4 Broadcasting :</p>		
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Multiple Choice Question

81	81	<p>Which of the following is not the component of a CPU</p> <p>A1 NIC Card :</p> <p>A2 VSAT :</p> <p>A3 RAM :</p> <p>A4 AGP Card :</p>	1.0	0.2 5
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Multiple Choice Question

82	82	<p>Magnetic tape is a...?</p> <p>A1 Serial access medium :</p> <p>A2 Random access medium :</p> <p>A3 A parallel access medium :</p> <p>A4 None of above</p>	1.0	0.2 5
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		:		
Multiple Choice Question				
83	83	What is the decimal value of the octal number 215?	1.0	0.25
		A1 327 :		
		A2 141 :		
		A3 97 :		
		A4 None of the above :		
Multiple Choice Question				
84	84	Which protocol is used for browsing website:	1.0	0.25
		A1 TCP :		
		A2 HTTP :		
		A3 FTP :		
		A4 TFTP :		
Multiple Choice Question				
85	85	The address of the next instruction to be executed by the current process is provided by the	1.0	0.25

		<p>A1 : CPU registers</p> <p>A2 : program counter</p> <p>A3 : process stack</p> <p>A4 : pipe</p>		
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Multiple Choice Question

86	86	<p>In priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared with the priority of</p> <p>A1 : all process</p> <p>A2 : currently running process</p> <p>A3 : parent process</p> <p>A4 : init process</p>	1.0	0.2 5
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Multiple Choice Question

87	87	<p>Which of the following condition is required for deadlock to occur</p> <p>A1 : mutual exclusion</p>	1.0	0.2 5
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		<p>A2 a process holds allocated resources while awaiting : assignment of other resources</p> <p>A3 no resource can be forcibly removed from a process holding : it</p> <p>A4 all of the mentioned :</p>		
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Multiple Choice Question

88	88	<p>A variable P is called pointer if</p> <p>A1 P contains the address of an element in DATA field :</p> <p>A2 P points to the address of first element in DATA field :</p> <p>A3 P can store only memory addresses :</p> <p>A4 P contain the DATA and the address of DATA field :</p>	1.0	0.2 5
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Multiple Choice Question

89	89	<p>The complexity of binary search algorithm is</p> <p>A1 n :</p> <p>A2 nlogn :</p> <p>A3 logn</p>	1.0	0.2 5
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		: A4 $n^2$ :		
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Multiple Choice Question

90	90	<p>A sparse matrix has</p> <p>A1 many zero entries :</p> <p>A2 many non-zero entries :</p> <p>A3 higher dimension :</p> <p>A4 none of above :</p>	1.0	0.2 5
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Multiple Choice Question

91	91	<p>The process of building new classes from existing one is called _____.</p> <p>A1 Polymorphism :</p> <p>A2 Structure :</p> <p>A3 Inheritance :</p> <p>A4 Cascading :</p>	1.0	0.2 5
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		Multiple Choice Question			
92	92	On which principle does stack work	1.0	0.2	5
		A1 FILO :			
		A2 FIFO :			
		A3 LILO :			
		A4 LIFO :			
		Multiple Choice Question			
93	93	How long is an IPv6 address?	1.0	0.2	5
		A1 32 bits :			
		A2 128 bytes :			
		A3 64 bits :			
		A4 128 bits :			
		Multiple Choice Question			
94	94	Which one of the following is not a secondary storage?	1.0	0.2	5
		A1 magnetic disks			

		<p>:</p> <p>A2 magnetic tapes</p> <p>:</p> <p>A3 RAM</p> <p>:</p> <p>A4 none of the mentioned</p> <p>:</p>		
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Multiple Choice Question

95	95	<p>The time for the disk arm to move the heads to the cylinder containing the desired sector is called</p> <p>A1 disk time</p> <p>:</p> <p>A2 seek time</p> <p>:</p> <p>A3 arm time</p> <p>:</p> <p>A4 sector time</p> <p>:</p>	1.0	0.2 5
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Multiple Choice Question

96	96	<p>What is Unicode?</p> <p>A1 Standard Font</p> <p>:</p> <p>A2 Software</p> <p>:</p>	1.0	0.2 5
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		<p>A3 Character Encoding System :</p> <p>A4 Keyboard layout :</p>		
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Multiple Choice Question

97	97	<p>Given a binary search tree, which traversal type would print the values in the nodes insorted order?</p> <p>A1 Preorder :</p> <p>A2 Postorder :</p> <p>A3 Inorder :</p> <p>A4 None of the above :</p>	1.0	0.2 5
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Multiple Choice Question

98	98	<p>What is a compiler?</p> <p>A1 A compiler does a conversion line by line as the program is run.</p> <p>A2 A compiler converts the whole of a higher level program code into machine code in one step</p> <p>A3 A compiler is a general purpose language providing very efficient execution.</p>	1.0	0.2 5
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		A4 : None of the above		
Multiple Choice Question				
99	99	Which among the following interacts directly with system hardware?  A1 : Shell  A2 : Commands  A3 : Kernel  A4 : Applications	1.0	0.2 5
Multiple Choice Question				
100	100	Which of the following can be Software:  A1 : Routers  A2 : Firewalls  A3 : Gateway  A4 : Modems	1.0	0.2 5



KIRAN-IPR Examination

## PREVIEW QUESTION BANK

Module Name : WOSC08-E

Exam Date : 31-Oct-2015 Batch : 11:00-13:00

[First](#) [Previous](#) [Next](#) [Last](#) Page 2 of 2

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Multiple Choice Question				
101	101	<p>'XEROX COPY OF BILL WAS SENT' is coded as 'ZGTQZ EQRA QH DKNN YCU UGPV'. Based on this coding scheme, tick the code from the answer choices for the word <b>WATER</b>:</p> <p>A1 : GVCTT</p> <p>A2 : YCVGT</p> <p>A3 : EQARR</p>	1.0	0.25

		A4 : EAVER		
Multiple Choice Question				
10 2	102	<p>If 'HBPQMNOT' stand for 'SUNDAY TO', how will you write 'YOU DO SO' using the coding scheme used for SUNDAY TO?</p> <p>A1 : NTBQTHT</p> <p>A2 : NTBQTHB</p> <p>A3 : NTQBTHB</p> <p>A4 : NTQBTHT</p>	1.0	0.2 5
Multiple Choice Question				
10 3	103	<p>If 12345671586 stands for 'TERMINATION', What number does 371586 stands for?</p> <p>A1 : MOTION</p> <p>A2 : NATION</p> <p>A3 : RATION</p> <p>A4 : NOTION</p>	1.0	0.2 5

Multiple Choice Question

10 4	104	<p>If III stands for 2, IIII for 3 and II for 1, how will you solve : IIII – II + III + IIIII = ?</p> <p>A1 IIIII :</p> <p>A2 IIIIIII :</p> <p>A3 IIIII :</p> <p>A4 VII :</p>	1.0	0.2 5
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Multiple Choice Question

10 5	105	<p>A is richer than B, C is richer than A, D is richer than C, and E is the richest of all. If they are made to sit in the above degree of richness who will have the medial position (central position):</p> <p>A1 A :</p> <p>A2 B :</p> <p>A3 C :</p> <p>A4 E :</p>	1.0	0.2 5
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Multiple Choice Question

10 6	106	<p>In a jungle, there are a total of 38 animals. Out of these, 7 are herbivores, 10 are carnivores and rest are omnivores. The</p>	1.0	0.2 5
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		<p>remaining animals are equally divided into carnivores and omnivores. Now, how many animals do not eat plants?</p> <p>A1 18 :</p> <p>A2 31 :</p> <p>A3 23 :</p> <p>A4 13 :</p>		
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Multiple Choice Question

10 7	107	<p>In a sample, there are 60 men and 70 women. Out of men, 35 own mobiles and rest own computers. Among women, 20 own mobiles and rest own computers. In the overall sample, what is the percentage of women owning mobile phones?</p> <p>A1 15% :</p> <p>A2 28% :</p> <p>A3 38% :</p> <p>A4 36% :</p>	1.0	0.2 5
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Multiple Choice Question

10 8	108		1.0	0.2 5
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		<p>Please read the following quote by Jerome K. Jerome. Which correctly reflects the quote?</p> <p>It is a most extraordinary thing, but I never read a patent advertisement without being impelled to the conclusion that I was suffering from the particular disease therein dealt with in its most virulent form.</p> <p>A1 : Jerome is suffering from a deadly disease</p> <p>A2 Jerome is forced to believe that he is having a deadly disease</p> <p>A3 : Jerome thinks that advertised medicine is extra ordinary</p> <p>A4 : Jerome never reads a patent medicine advertisement</p>		
Multiple Choice Question				
109	109	<p>In the light of arguments below, which one of the following is logical?</p> <p>All women are biologists</p> <p>Some patent agents are women</p> <p>A1 : All patent agents are biologists</p> <p>A2 : All women are patent agents</p> <p>A3 : Some biologists are patent agents</p>	1.0	0.25

		A4 : No logical conclusion		
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Multiple Choice Question

11 0	110	1. Poles:Magnet = _____: Battery  A1 : energy  A2 : power  A3 : terminals  A4 : Water	1.0	0.2 5
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Multiple Choice Question

11 1	111	What is 67 x 92  A1 : 7125  A2 : 6164  A3 : 7200  A4 : 8000	1.0	0.2 5
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Multiple Choice Question

11 2	112	<p>What is the cube root of 50653</p> <p>A1 37 :</p> <p>A2 35 :</p> <p>A3 57 :</p> <p>A4 63 :</p>	1.0	0.2 5
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Multiple Choice Question

11 3	113	<p>What will be the compound interest on INR 5000/- for 2 years at 12 % p.a</p> <p>A1 1272 :</p> <p>A2 1560 :</p> <p>A3 1000 :</p> <p>A4 4000 :</p>	1.0	0.2 5
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Multiple Choice Question

11 4	114	<p>A shopkeeper bought 2 fans for INR 800 each. He sold one for a profit of 12% and the other at a loss of 12 %. What would be his overall profit or loss in the transaction?</p>	1.0	0.2 5
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		<p>A1 No profit or loss :</p> <p>A2 10%profit :</p> <p>A3 10%loss :</p> <p>A4 11%profit :</p>		
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Multiple Choice Question

11 5	115	<p>What is the answer for <math>87 \times 96 \times 100 \times 0 \times 75 \times 1</math></p> <p>A1 1015677810 :</p> <p>A2 0 :</p> <p>A3 756271179 :</p> <p>A4 656354219 :</p>	1.0	0.2 5
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Multiple Choice Question

11 6	116	<p>A:B =7:4, After 5 years, A: B =11:7, What is A?</p> <p>A1 12 years :</p> <p>A2 14 years :</p>	1.0	0.2 5
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		<p>A3 15 years :</p> <p>A4 28 years :</p>		
Multiple Choice Question				
11 7	117	<p><math>? + 79^2 = 172^2 - 88^2 - 8203</math></p> <p>A1 86 :</p> <p>A2 89 :</p> <p>A3 83 :</p> <p>A4 93 :</p>	1.0	0.2 5
Multiple Choice Question				
11 8	118	<p>What would be the average of 61,63,65,67,69</p> <p>A1 62.5 :</p> <p>A2 62 :</p> <p>A3 65 :</p>	1.0	0.2 5

		A4 66 :		
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Multiple Choice Question

119	119	<p>A thief spots a policeman 100m away and takes to his heels. If the policeman gives a chase immediately, then how far would the thief have run before getting caught? The speeds of the policeman and the thief are 10kmph and 8kmph respectively</p> <p>A1 400m :</p> <p>A2 500m :</p> <p>A3 600m :</p> <p>A4 700m :</p>	1.0	0.25
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Multiple Choice Question

120	120	<p>What would be the average of : 9, 10, 11,12 ?</p> <p>A1 10 :</p> <p>A2 11 :</p> <p>A3 10.5 :</p> <p>A4 12 :</p>	1.0	0.25
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Multiple Choice Question

12 1	121	<p>Which of the following does not support the wave nature of Light?</p> <p>A1 Interference :</p> <p>A2 Polarisation :</p> <p>A3 Compton effect :</p> <p>A4 Diffraction :</p>	1.0	0.2 5
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Multiple Choice Question

12 2	122	<p>At what velocity the kinetic energy of a body is equal to its rest mass energy?</p> <p>A1 <math>\sqrt{3}c/2</math> :</p> <p>A2 <math>c/2</math> :</p> <p>A3 <math>c/3</math> :</p> <p>A4 <math>0.25c</math> :</p>	1.0	0.2 5
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Multiple Choice Question

12 3	123	<p>Which one is the correct volume element in spherical polar coordinate system?</p>	1.0	0.2 5
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		<p>A1 <math>dV = r \sin \theta dr d\theta d\phi</math> :</p> <p>A2 <math>dV = \sin \theta dr d\theta d\phi</math> :</p> <p>A3 <math>dV = r^2 \sin \theta dr d\theta d\phi</math> :</p> <p>A4 <math>dr d\theta d\phi</math> :</p>		
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Multiple Choice Question

12 4	124	<p>The energy of a particle in an infinite potential well is</p> <p>A1 proportional to <math>n^2</math> :</p> <p>A2 inversely proportional to <math>n^2</math> :</p> <p>A3 proportional to <math>n</math> :</p> <p>A4 inversely proportional to <math>n</math> :</p>	1.0	0.2 5
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Multiple Choice Question

12 5	125	<p>Group velocity of an electron in 1-D lattice is defined as</p> <p>A1 <math>V_g = d\kappa / d\omega</math> :</p> <p>A2 <math>V_g = d\omega / d\kappa</math> :</p>	1.0	0.2 5
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A3  $V_s = \omega k$

:

A4  $V_s = \omega / k$

:

Multiple Choice Question

12  
6

126

The energy gap between the valence and conduction bands in a semiconductor is of the order of

1.0

0.2  
5

A1 26eV

:

A2 1.0 eV

:

A3 7eV

:

A4 0.001eV

:

Multiple Choice Question

12  
7

127

Brewster's law in term of refractive index can be expressed as

1.0

0.2  
5

A1  $\mu = \tan i_p$

:

A2  $\mu = \cos i_p$

:

A3  $\mu = \sin i_p$

:

		A4 $\mu = \omega t_i$ :		
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Multiple Choice Question

12 8	128	Which of the following phenomena tells about the transverse nature of the light?  A1 Interference : A2 Diffraction : A3 Polarization : A4 Photoelectric effect :	1.0	0.2 5
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Multiple Choice Question

12 9	129	The unit of spring constant in S.I. systems of units is  A1 $Nm^{-2}$ : A2 $Nm^{-1}$ : A3 $Nm^2$ : A4 $Nm$ :	1.0	0.2 5
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Multiple Choice Question

130	130	<p>Which one of the following relation is valid for group velocity <math>V_g</math> velocity <math>V_p</math>?</p> <p>A1 <math>V_g = V_p - \lambda dV_p / d\lambda</math> :</p> <p>A2 <math>V_g = V_p + \lambda dV_p / d\lambda</math> :</p> <p>A3 <math>V_g = V_p / \lambda</math> :</p> <p>A4 none of these :</p>	1.0	0.25
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Multiple Choice Question

131	131	<p>Which one of the following operator is associated with momentum?</p> <p>A1 <math>\frac{\hbar}{i} \nabla</math> :</p> <p>A2 <math>-\frac{\hbar^2}{i} \nabla^2</math> :</p> <p>A3 <math>\frac{\hbar^2}{i} \nabla^2</math> :</p> <p>A4 <math>\frac{\hbar^2}{2m} \nabla^2</math> :</p>	1.0	0.25
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Multiple Choice Question

132	132	Ratio between energy levels of ground state and the first	1.0	0.25
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		excited state of one dimensional square well potential is		
		A1 : 1:2		
		A2 : 2:1		
		A3 : 1:4		
		A4 : 1:8		

Multiple Choice Question

13 3	133	Which one of the following is the radius of first Bohr's orbit?	1.0	0.2 5
		A1 $\epsilon_0 \hbar^2 / \pi m Z e^2$ :		
		A2 $\epsilon_0 \hbar^2 / \pi m Z e^2$ :		
		A3 $\epsilon_0 \hbar^2 / \pi m Z^2 e^2$ :		
		A4 $\epsilon_0 \hbar^2 / \pi m Z^2 e^2$ :		

Multiple Choice Question

13 4	134	Which one of the following has the lowest wavelength?	1.0	0.2 5
		A1 : Visible light		

		<p>A2 X-rays :</p> <p>A3 Infra-red rays :</p> <p>A4 Ultraviolet rays :</p>		
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Multiple Choice Question

13 5	135	<p>The process by which a beam of white light splits into its constituent colors is known as</p> <p>A1 Reflection :</p> <p>A2 Dispersion :</p> <p>A3 Divergence :</p> <p>A4 Convergence :</p>	1.0	0.2 5
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Multiple Choice Question

13 6	136	<p>An example of mechanical wave is</p> <p>A1 Radio wave :</p> <p>A2 Light wave :</p> <p>A3 Infrared radiation</p>	1.0	0.2 5
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		: A4 Sound wave :		
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Multiple Choice Question

13 7	137	<p>If the speed of the object is doubled then its kinetic energy is</p> <p>A1 Doubled :</p> <p>A2 Halved :</p> <p>A3 Tripled :</p> <p>A4 Quadrupled :</p>	1.0	0.2 5
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Multiple Choice Question

13 8	138	<p>For a conservative field</p> <p>A1 <math>\oint \vec{E} \cdot d\vec{l} = 0</math> :</p> <p>A2 <math>\oint \vec{E} \cdot d\vec{l} = El</math> :</p> <p>A3 <math>\oint \vec{E} \cdot d\vec{l} = 1</math> :</p> <p>A4 None of above :</p>	1.0	0.2 5
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Multiple Choice Question

139	139	The relation between electric field and potential is	1.0	0.25
		A1 $\vec{E} = \vec{\nabla}V$		
		A2 $\vec{E} = -\vec{\nabla}V$		
		A3 $\vec{E} = \vec{\nabla}^2V$		
		A4 $\vec{E} = -\vec{\nabla}^2V$		

Multiple Choice Question

140	140	Which of the following wave functions represents a free particle along +ve X-axis	1.0	0.25
		A1 $Ae^{i(kx-\omega t)}$		
		A2 $Ae^{-i(kx-\omega t)}$		
		A3 $A\sin(kx-\omega t)$		
		A4 $A\cos(kx-\omega t)$		

Multiple Choice Question

141	141	WTO stands for	1.0	0.25
		A1 World Trade Organisation		



		: A2 World Trademark Organisation : A3 World Tariff Organisation : A4 World Transport Organisation		
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Multiple Choice Question

14 2	142	A doctor invents a machine which can diagnose 'painlessly'. Such machine is  A1 Patentable : A2 Non patentable : A3 Trade mark related : A4 None of the above	1.0	0.2 5
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Multiple Choice Question

14 3	143	Term of patent in India is  A1 10 years : A2 15 years	1.0	0.2 5
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		A3 : 20 years		
		A4 : 25 years		

Multiple Choice Question

14 4	144	Match Column A and Column B and tick the right answer	1.0	0.2 5																				
		<table border="0"> <thead> <tr> <th>SNo</th> <th>Column A</th> <th>SNo</th> <th>Column B</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Trade Dress</td> <td>p</td> <td>Process for purification of dye</td> </tr> <tr> <td>2</td> <td>Patent</td> <td>q</td> <td>Unique get up of a restaurant</td> </tr> <tr> <td>3</td> <td>Trademark</td> <td>r</td> <td>Name of a product</td> </tr> <tr> <td>4</td> <td>Design</td> <td>s</td> <td>Snail shape of the perfume bottle</td> </tr> </tbody> </table>	SNo	Column A	SNo	Column B	1	Trade Dress	p	Process for purification of dye	2	Patent	q	Unique get up of a restaurant	3	Trademark	r	Name of a product	4	Design	s	Snail shape of the perfume bottle		
SNo	Column A	SNo	Column B																					
1	Trade Dress	p	Process for purification of dye																					
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3	Trademark	r	Name of a product																					
4	Design	s	Snail shape of the perfume bottle																					

A1  
: 1q-2p-3r-4s

A2  
: 1s-2r-3p-4q

A3  
: 1p-2s-3q-4r

A4  
: 1r-2q-3s-4p

Multiple Choice Question

14 5	145	Tick one of the following that is incorrect	1.0	0.2 5
		A1 : New form of a known substance can be patented in India if it has enhanced efficacy		

		<p>A2 Design registration can be obtained in India on functional aspects of the article</p> <p>A3 The Patents Act 1970 in India allows for protection of processes related to preparation of semiconductor chips</p> <p>A4 Products derived out of traditional knowledge may be patentable in India</p>		
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Multiple Choice Question

14 6	146	<p>One of the following is not under the scope of protection offered under the Paris Convention</p> <p>A1 Copyrights</p> <p>A2 Utility models</p> <p>A3 Designs</p> <p>A4 Trade marks</p>	1.0	0.2 5
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Multiple Choice Question

14 7	147	<p>Disclosure of source and geographical origin is _____ requirement for examination of a patent in case of biotechnology applications in India</p> <p>A1 Mandatory</p> <p>A2 Optional</p>	1.0	0.2 5
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		<p>A3 : Voluntary</p> <p>A4 : Essential</p>		
Multiple Choice Question				
14 8	148	<p>Which of the following statements is incorrect</p> <p>A1 These is a link between product place link in general in : case of GIs</p> <p>A2 All GIs and appellations of origin are indications of source : but not vice versa</p> <p>A3 All appellations of origin are geographical indications and : vice versa</p> <p>A4 : Appellations of origin necessarily need a product place link</p>	1.0	0.2 5
Multiple Choice Question				
14 9	149	<p>One of the following cases led to the patenting of modified microorganisms in India</p> <p>A1 : Diamond v Chakrabarty</p> <p>A2 : Diamond v Diehr</p> <p>A3 : Dimminaco AG v Controller of Patents</p>	1.0	0.2 5

		A4 : Novartis v Controller of Patents		
Multiple Choice Question				
15 0	150	'Work of Architecture' can be protected under  A1 : Design  A2 : Patent  A3 : Trade Dress  A4 : Copyright	1.0	0.2 5
Multiple Choice Question				
15 1	151	The determinant of the matrix  $2 \begin{pmatrix} 1 & 2 & 3 \\ 0 & 1 & 4 \\ 0 & 0 & 1 \end{pmatrix}^{10}$ , is  A1 : 2  A2 : 2 <sup>3</sup>  A3 : 2 <sup>4</sup>	1.0	0.2 5

		A4 $2^{10}$ :		
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Multiple Choice Question

15 2	152	<p>The integral <math>\int_{-1}^1 \frac{dx}{x^2}</math></p> <p>A1 : Converges to -2</p> <p>A2 : Converges to 0</p> <p>A3 : Converges to 2</p> <p>A4 : Does not converge</p>	1.0	0.2 5
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Multiple Choice Question

15 3	153	<p>Total number of linearly independent vectors in <math>\{(1,0,0,0), (1,1,0,0), (2,1,0,0), (2,2,2,2)\}</math> is</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p>	1.0	0.2 5
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Multiple Choice Question

15 4	154	<p>Number of real zeros of the polynomial <math>5x^3 - 2x^2 + 3x - 5</math> is</p> <p>A1 0 :</p> <p>A2 1 :</p> <p>A3 2 :</p> <p>A4 3 :</p>	1.0	0.2 5
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Multiple Choice Question

15 5	155	<p>The number of points at which the tangent to the curve</p> $y = 3x^4 + 2x^3 + 10x + 9$ <p>is parallel to the line</p> $y = 4x - 1$ <p>A1 1 :</p> <p>A2 2 :</p> <p>A3 3 :</p> <p>A4 4</p>	1.0	0.2 5
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Multiple Choice Question

15 6	156	<p>The number of solutions of the system of equations</p> $x + y + 2z = 4, x + z = 5, 2x + y + 3z = 6$ <p>A1 0 :</p> <p>A2 Exactly one :</p> <p>A3 Exactly two :</p> <p>A4 Infinitely many :</p>	1.0	0.2 5
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Multiple Choice Question

15 7	157	<p>The rank of the matrix <math>\begin{pmatrix} 1 &amp; 2 &amp; -1 \\ 6 &amp; 4 &amp; 2 \\ 4 &amp; -1 &amp; 5 \end{pmatrix}</math> is</p> <p>A1 0 :</p> <p>A2 1 :</p> <p>A3 2 :</p> <p>A4 3 :</p>	1.0	0.2 5
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Multiple Choice Question				
158	158	<p>If the area of the triangle in the complex plane with the vertices <math>1, z</math> and <math>iz</math> is 8, then <math>z</math> lies on a circle with radius</p> <p>A1 1 :</p> <p>A2 2 :</p> <p>A3 3 :</p> <p>A4 4 :</p>	1.0	0.25
Multiple Choice Question				
159	159	<p>In a class 60% of the students want to dance, and 70% want to watch cricket. What percentage of students want to dance watching cricket?</p> <p>A1 30% :</p> <p>A2 20% :</p> <p>A3 10% :</p> <p>A4 0% :</p>	1.0	0.25
Multiple Choice Question				

160	160	<p>The probability of throwing 9 at least in a single throw with two dice is</p> <p>A1 <math>\frac{2}{9}</math> :</p> <p>A2 <math>\frac{4}{9}</math> :</p> <p>A3 <math>\frac{5}{9}</math> :</p> <p>A4 <math>\frac{5}{18}</math> :</p>	1.0	0.25
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Multiple Choice Question

161	161	<p>_____ his friends speaks any English</p> <p>A1 Both of :</p> <p>A2 Some of :</p> <p>A3 None of :</p> <p>A4 All of :</p>	1.0	0.25
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Multiple Choice Question

162	162	<p>Sapna went to buy ____ engagement ring for Satish yesterday</p> <p>A1 a :</p>	1.0	0.25
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		<p>A2 an :</p> <p>A3 that :</p> <p>A4 those :</p>		
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Multiple Choice Question

16 3	163	<p>She took _____ books with her while going on holiday but she read only a few of them during her stay</p> <p>A1 much :</p> <p>A2 none :</p> <p>A3 plenty :</p> <p>A4 a lot of :</p>	1.0	0.2 5
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Multiple Choice Question

16 4	164	<p>A young boy who is away from his mother and father for the first time often _____</p> <p>A1 miss him :</p> <p>A2 misses them :</p>	1.0	0.2 5
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		<p>A3 misses him :</p> <p>A4 miss them :</p>		
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Multiple Choice Question

16 5	165	<p>Babies ____ when they are hungry</p> <p>A1 cry :</p> <p>A2 cries :</p> <p>A3 cried :</p> <p>A4 are crying :</p>	1.0	0.2 5
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Multiple Choice Question

16 6	166	<p>Which one of the following sentences is correct?</p> <p>A1 I don't know how many brothers and sisters do you have? :</p> <p>A2 I don't know how many brothers and sisters you have. :</p> <p>A3 I don't know how many brothers and sisters have you. :</p> <p>A4 I don't know how much brothers and sisters does you have?</p>	1.0	0.2 5
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Multiple Choice Question

167	167	The film was more enjoyable _____ we had expected	1.0	0.25
		A1 than		
		A2 then		
		A3 since		
		A4 as		

Multiple Choice Question

168	168	The new teacher spoke so softly _____ we had to ask her to be louder	1.0	0.25
		A1 that		
		A2 then		
		A3 so		
		A4 who		

Multiple Choice Question

169	169	I will not sing that song _____ you sing with me	1.0	0.2
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9		<p>A1 because :</p> <p>A2 lest :</p> <p>A3 for :</p> <p>A4 unless :</p>		5
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Multiple Choice Question

17 0	170	<p>Which of the following choices would make the sentence meaningfully complete: "Rousseau was the most _____ speaker I had ever heard until I came to know Martin Luther."</p> <p>A1 vain :</p> <p>A2 arrogant :</p> <p>A3 articulate :</p> <p>A4 accoutred :</p>	1.0	0.2 5
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Multiple Choice Question

17 1	171	<p>Which of the following choices would make the sentence meaningfully complete: "Most of the stories regarding the miracles performed by various religious prophets are _____, there is no historical evidence to support them."</p>	1.0	0.2 5
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		<p>A1 illogical :</p> <p>A2 genuine :</p> <p>A3 fictitious :</p> <p>A4 interesting :</p>		
Multiple Choice Question				
17 2	172	<p>In the sentence below one word has been printed in bold. Find the appropriate word from the words suggested below which can replace the word printed in bold, without changing the meaning of the sentence. She came in utter disrepute due to her <b>vindictive</b> act.</p> <p>A1 Eventful :</p> <p>A2 Derogatory :</p> <p>A3 ungrateful :</p> <p>A4 revengeful :</p>	1.0	0.2 5
Multiple Choice Question				
17 3	173	<p>Synonym of <b>Yardstick</b> is</p> <p>A1 crime</p>	1.0	0.2 5

		<p>:</p> <p>A2 possession</p> <p>:</p> <p>A3 standard</p> <p>:</p> <p>A4 ethics</p> <p>:</p>		
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Multiple Choice Question

17 4	174	<p>Synonym of <b>Sporadic</b> is</p> <p>A1 Intermittent</p> <p>:</p> <p>A2 continuous</p> <p>:</p> <p>A3 weekly</p> <p>:</p> <p>A4 contumacious</p> <p>:</p>	1.0	0.2 5
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Multiple Choice Question

17 5	175	<p><b>In the following sentence, a part of sentence is given Below are given alternatives to the bold part as (a), (b), may improve the sentence. Choose the correct alternative no improvement is needed, the answer is (d)</b></p> <p>To get into the building I'll <b>disguise as</b> a reporter</p> <p>A1 Disguise to be</p> <p>:</p>	1.0	0.2 5
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		<p>A2 : Disguise as one</p> <p>A3 : Disguise myself</p> <p>A4 : No improvement</p>		
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Multiple Choice Question

17 6	176	<p><b>In the following sentence, a part of sentence is given Below are given alternatives to the bold part as (a), (b), may improve the sentence. Choose the correct alternative no improvement is needed, the answer is (d)</b></p> <p>He denied that he had <b>not forged</b> my signature</p> <p>A1 : would not forge</p> <p>A2 : had forged</p> <p>A3 : did not forge</p> <p>A4 : No improvement</p>	1.0	0.2 5
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Multiple Choice Question

17 7	177	<p>Spot the error in the sentence: "It was him / who came running/ into the classroom."</p> <p>A1 : It was him</p>	1.0	0.2 5
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		<p>A2 : who came running</p> <p>A3 : into the classroom</p> <p>A4 : It was he</p>		
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Multiple Choice Question

17 8	178	<p>Spot the error in the sentence: "None of two girls/ who were present/ were inclined to listen / to sane advice".</p> <p>A1 : None of two girls</p> <p>A2 : who were present</p> <p>A3 : were inclined to listen</p> <p>A4 : to sane advice</p>	1.0	0.2 5
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Multiple Choice Question

17 9	179	<p>Choose the correct option so as to make the sentence grammatically correct: "Rahul Gandhi had a _____ with Akhilesh Yadav."</p> <p>A1 : face of</p> <p>A2 : face-off</p>	1.0	0.2 5
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		A3 : face angle		
		A4 : face fly		
Multiple Choice Question				
18 0	180	Choose the correct option so as to make the sentence grammatically correct: "Please consult the _____ and tell me on which day the Christmas will fall in this year."	1.0	0.2 5
		A1 : calendar		
		A2 : celandar		
		A3 : calander		
		A4 : calender		